

(54) Title  
**PANELS WITH LAMINATED STRIPS FOR CLIPS**

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(51): **E04B 002/76**

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(56) Prior Art Documents  
**GB 1439018**  
**US 4245448**  
**US 4128979**

(57) Claim

17. A wallboard comprising a flat, rectangular, rigid board, said board having a front face, a back face, two side edges and two ends, said board having thin, strong, tear-resistant material partially adhered to said back face, said tear-resistant material being disposed in at least a plurality of spaced-apart areas throughout said back face, suitable to support and retain said wallboard in place when fastening means are affixed to said material in each of said areas, said material being adhered to said back face at least in said spaced-apart areas with unadhered portions forming pockets positioned between adhered portions, whereby an upwardly extending leg of a suspension clip can be caused to pass through said material at one of said unadhered portions and to extend upward into said unadhered pocket, to support and retain said wallboard in place.

21. The method of mounting wallboard comprising the steps of inserting a back leg portion of each of a plurality of angled suspension clips through thin tear-resistant material, said thin tear-resistant material being adhered to a back face of said wallboard along spaced apart portions of said thin tear-resistant material, inserting each of said clips upwardly through an opening in said thin tear-resistant material into a pocket between said wallboard back face and an unadhered area of said thin tear-resistant material located between said spaced apart adhered portions and immediately above said opening, and subsequently disposing outwardly and downwardly extending hanger legs of said plurality of clips on horizontally extending channel members of a wall framing structure.

616088

FORM 10

S & F Ref: 115278

COMMONWEALTH OF AUSTRALIA

PATENTS ACT 1952

COMPLETE SPECIFICATION

(ORIGINAL)

FOR OFFICE USE:

Class      Int Class

Complete Specification Lodged:  
Accepted:  
Published:

Priority:

Related Art:

Name and Address:  
of Applicant:

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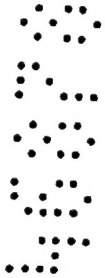
Complete Specification for the invention entitled:

Panels with Laminated Strips for Clips

The following statement is a full description of this invention, including the best method of performing it known to me/us

# ABSTRACT

A gypsum wallboard suspension system in which the wallboard has a tear-resistant material partially adhered to the back face, with small slots in the material located at unadhered areas, through which small suspension clips are inserted. The clips include a hanger leg for hanging the clip on horizontal channels, which are part of the wall framing system.



~~This application is a continuation in part of~~  
~~my copending application, Serial No. 07/299,200, filed~~  
~~January 23, 1989.~~

### FIELD OF THE INVENTION

The present invention relates to a demountable wall panel, to a hollow, demountable wall made therefrom, to a method of mounting wallboard, and more particularly to a predecorated wallboard having adhered on the

10 wallboard back face a thin sheet of relatively tear-resistant material with a plurality of openings in the tear-resistant material located at unadhered areas, for the reception of small rigid clips which provide the means for affixing the wallboard to the wall framing system.

### BACKGROUND OF THE INVENTION

A common method of affixing demountable predecorated gypsum wallboard to a metal framework, in constructing a hollow interior partition wall, is

20 disclosed in U.S. Patent No. 4,245,448, wherein a small metal plate with bent-out, sharp, piercing tangs is affixed to a wallboard back face by driving the tangs through the wallboard back face paper, into the interior gypsum core, in a manner similar to a gang nail plate being affixed to a wooden rafter.

These gang nail plates are somewhat expensive, they must be handled separately and delivered to the building contractor separately, they must be affixed to the wallboard by the builder as a separate time consuming

30 step, and their use involves the possibility of the

builder applying the strips in the wrong position in a manner which damages the wallboard. Once affixed to a wallboard, the plates create a problem, by their thickness, rigidity and small size, when a large number of such wallboards are demounted and stacked prior to reconstructing the wall in a new location, since the plates tend to damage wallboards when stacks are high enough to place great weight on the boards near the bottom of the stack.

10 U.S. Patent No. 1,810,597 discloses an elongate metal strip which is attached, by tangs or nails or screws, to the back face of a wallboard in a factory. The metal strip includes a plurality of tongues which extend outward in position to cooperate with a plurality of openings in the face of a specially adapted metal stud.

20 This metal strip is also somewhat expensive, and presents the problem of damage possibly occurring to the wallboard as the strip is being fastened to the wallboard. This strip would also create a problem in stacking the boards, after manufacture in the factory, or after demounting of the wallboards for relocating the wall, due to the protruding tongues.

#### SUMMARY OF THE INVENTION

30 The present invention involves a gypsum wallboard which has thin, flexible, tear-resistant material adhesively affixed to the wallboard back face. This thin material, which is preferably a laminated material consisting, for example, of a continuous fiber-reinforced paper and a thin, open meshed scrim, is

attached to the back face with a plurality of openings at  
preplanned positions, for the reception of small, angled,  
support clips. The clips have at least one upwardly  
extending leg for disposition through one of the openings  
and at least one outwardly and downwardly extending leg  
for placement over a wallboard supporting element of the  
wall framework, such as a horizontal channel. The clips  
also, preferably, include an intermediate leg which  
adjoins the upwardly extending leg and the outwardly and  
10 downwardly extending leg and results in the outwardly and  
downwardly extending leg being disposed adjacent the  
midsection of the upwardly extending leg. The clips are  
preferably formed of a rigid sheet metal which has an  
enlargement in a small area of the top of the inter-  
mediate leg and a complementary depression or hole in the  
immediately adjacent area of the upwardly extending leg,  
between which depression and enlargement the tear-resis-  
tant material is pinched and firmly grasped.

The thin, flexible, tear-resistant material can  
20 be applied to the entire back face of the wallboard, it  
can be applied as small patches at desired locations on  
the back face, but it is preferably applied in narrow  
strips, preferably extending lengthwise of the wallboard  
closely adjacent each side edge of the wallboard, but  
alternatively extending laterally at a plurality of  
spaced locations.

It is an object of the invention to provide a  
novel combination of elements for affixing wallboard to a  
wall framing system.

of a wallboard with a slit fabric adhered to the back and a rigid clip formed to fit through the fabric slits and have an opposite end which is formed to be supported on a horizontal framing member.

It is a still further object to provide a demountable hollow wall in which wallboard is supported on a metal framework by rigid clips which have an outer portion supported on a horizontal framing member and an  
10 inner portion extending through slits in a tear-resistant fabric material adhered to the wallboard back face.

#### BRIEF DESCRIPTION OF THE DRAWINGS

These and other objects and advantages of the invention will be more readily apparent when considered in relation to the preferred embodiments, as set forth in the specification, and shown in the drawings, in which:

Figure 1 is a fragmentary elevation of a wall with some of the panels removed to show the framework and wallboard supporting element, all in accordance with the  
20 present invention.

Figure 2 is a partly broken away, isometric view of a small section of the wall of Figure 1, showing the wallboard supporting elements.

Figure 3 is a vertical sectional view of the wallboard supporting elements of Figure 2 taken on line 3-3 thereof.

Figure 4 is an isometric view of the wallboard of Figure 1 showing the preferred arrangement of fabric strips with a plurality of optional clip receiving slits  
30 for use with various ceiling height partition walls.



Figure 5 is a partly broken away, isometric view, similar to Figure 2, of a modified form of the invention.

Figure 6 is a partly broken away, isometric view, similar to Figure 2, of a further modified form of the invention.

#### DESCRIPTION OF THE PREFERRED EMBODIMENTS

Referring to the drawings, there is shown a wall 10 including a floor runner 12 mounted on floor 14, a ceiling runner 16 mounted on ceiling 18, vertical, laterally-spaced studs 20 mounted in the floor runner 12 and ceiling runner 16, vertically-spaced horizontal channels 22 extending through horizontally aligned cutouts 24 in the webs 25 of the studs 20, and wallboards 26 which are mounted firmly against both sides of the studs 20, held there by suspension clips 28. Wallboards 26 are preferably paper covered gypsum wallboards.

The wallboards 26 have a novel tear-resistant, slotted, elongate fabric strip 30 partially adhered to the back face 32 adjacent each side edge 34 of each wallboard 26. Tear-resistant strips 30 can be formed of any thin, strong material, but are preferably formed of a thin, laminated composite including a fabric scrim 36 having square-woven, tension-resistant fiberglass threads, eight threads per inch, with threads extending laterally and longitudinally of the elongate strip 30 laminated on each face to fiber-reinforced papers 38, 38 in which the fibers are tension-resistant fiberglass threads arranged in both diagonal directions of the strip 30, spaced-apart at about one-half inch spacings.

The fiber-reinforced paper 38 may be made from fiber-reinforced paper tapes which are commonly used in wrapping and sealing large packages.

It is also contemplated that the tear-resistant strips 30 can be formed of other thin, strong materials, including a non-woven, fused, composite layer of a synthetic fiber such as a polyester or polypropylene combined with wood pulp fibers which layer is laminated to a relatively unstretchable 40 to 50 pound Kraft paper; a similar composite layer without the Kraft paper; a non-woven, fused layer of a synthetic fiber such as polyester or polypropylene without wood pulp but laminated to a Kraft paper; a non-woven, fused layer of synthetic fibers such as polyester or polypropylene combined with wood pulp fibers and with fiberglass fibers; any of the above-mentioned layers in which the synthetic fibers have been spun-bonded; any of the above-mentioned layers in which fiberglass fibers with a suitable binder are substituted for the synthetic fibers; any of the above-mentioned layers with a further layer of a woven scrim added to the layer or laminated between two such layers; spun-bonded, non-woven nylon; latex impregnated paper laminated to a Kraft paper; metal screen laminated to a Kraft paper; or a thin metal sheet, such as steel, of about .015 inch thickness. In the case of the non-woven examples, the non-woven materials will preferably be of about 3 to 4 ounces per square yard and about .018 to .023 inch thick. It is contemplated that many other equivalent thin tear-resistant materials may

be found suitable for use in accordance with the invention.

The strips 30 can be made from any thin sheet material of any number of plies if sufficient tear resistance can be provided to support the wallboards 26, as will be understood from the following description of the function of the strips 30.

The strips 30, in the preferred embodiment, are about two inches to four inches wide, and are partially  
10 adhesively affixed along the full length of the back face 32. One strip 30 is placed parallel to and spaced inward from one side edge 34 and a second strip 30 is placed parallel to and spaced inward from the opposite side edge 34.

The strips 30 have a plurality of slots 40 extending laterally, having a lateral length of about one inch and a slot width of between about 0 and 1/4 inch. The slots 40 are centered laterally of the strips 30 and are spaced apart at a distance which will correspond to  
20 the vertical spacing of the horizontal channels 22 of wall 10.

The slots 40 are preferably formed in the strips 30 prior to adhering the strips to the back face 32, however, it is contemplated that the slots 40 could be formed subsequent to adhering the strips 30 to back face 32, even as late as just prior to mounting the wallboards 26, to construct the wall 10.

In the prior construction of partition walls involving suspending wallboard on spaced parallel

horizontal channels, such as the structure of the previously discussed U.S. Patent No. 4,245,448, it has been the practice to employ four horizontal channels at twenty-four-inch spacings, for ten-foot high walls, and three horizontal channels at twenty-six-inch spacings, for nine-foot high walls, measuring the first spacing from the ceiling, or top edge of a wallboard to the bottom of the first channel. Accordingly, the slots 40 in strips 30 are located at spacings from the wallboard top edge 42 of 24 inches, 26 inches, 48 inches, 52 inches, 72 inches, 78 inches, and 96 inches.

The suspension clips 28, which hold the wallboard 26 against the studs 20, are formed of a heavy gauge, one-inch wide sheet metal and include a three-inch long, vertically extending back leg 44 connected at the bottom with a 170° bend 46 to an upwardly extending curved, inch-and-a-half long front leg 48. Front leg 48 is connected at the top with a 150° bend 50 to a downwardly and outwardly extending hanger leg 52, which extends at an angle of about 40° to 60° relative to the vertical back leg 44.

The tear-resistant strips 30, which are partially adhered to the back face 32 of wallboards 26, are adhered very firmly along the two side edge areas 54 with no adhesion of the strips 30 along an elongate central area 56, which central area 56 is substantially equal in width to the laterally extending length of the slots 40. Strips 30 have a raised ridge 57 along the center of central area 56, providing easier insertion of clips 28 through slots 40, as described herebelow.

the back leg 44 of each clip 28 is disposed between the wallboard back face 32 and the tear-resistant strip 30. Each clip 28 extends through a slot 40 at the clip bottom bend 46. Each clip hanger leg 52 is disposed over the top edge 58 of an upwardly extending side wall 60 of a horizontal channel 22.

Figure 1 shows a nine-foot high wall 10, with three channels 22 spaced respectively 26 inches, 52 inches and 78 inches downward from the wallboard top edge 42, and with three clips 28 having clip bottom bends 46 extending through slots which are also spaced respectively 26 inches, 52 inches and 78 inches downward from the wallboard top edge 42. The wallboards 26 are, thus, each suspended, and urged firmly against the studs 20, by the hanger legs 52, of six clips 28, being supported on the channel side walls 60 and the tear-resistant strips 30 being supported, at the six slots 40 engaged by clips 28, by the tear-resistant strength of the material of strips 30.

The weight of the wallboards 26 is also partially supported by the grasping forces created by the hanger legs 52, which are being bent upward by the weight of the wallboard 26, causing the upper end 62 of curved front leg 48 to be urged firmly against the strip 30, squeezing the strip 30 between the upper end 62 and the back leg 44. To further enhance this grasping, the hanger leg and the upper end 62 of the front leg have a central raised ridge 64, and back leg 44 has a small hole 66 located so that the portion of ridge 64 which extends around bend 50 will protrude slightly into the hole 66

44, resulting in essentially a locking force grasping the material of strip 30 located therebetween.

It will be understood that if wall 10 were to be a ten-foot high wall, there would be one additional channel 22 and two additional clips 28, all disposed respectively at locations 24 inches, 48 inches, 72 inches and 96 inches from the wallboard top edge 42. Wallboard top edge 42 will be seen to be at the same height as the stud top edges 68, which are disposed within the ceiling runner 16.

If the wallboards are four-feet wide, there will commonly be an additional vertical stud (not shown) located at two-foot spacings from the studs 20 at the wallboard side edges 34. In such cases, it is common to have the wallboard side edges 34 of one face 70 of the wall 10 located over alternating studs 20, between the studs (not shown) behind the wallboard edges of the other face 72 of the wall 10.

In Figure 5, there is shown a modified form of the invention in which a stud 80 supports a horizontal channel 82 extending through cutouts 84 in the stud 80. Wallboards 86 are supported and held firmly against studs 80 by suspension clips 88. The wallboards 86 have a tear-resistant fabric strip 90 partially adhered to the back face 92, adjacent each side edge 93 of wallboard 86.

The fabric strip 90 has a plurality of slots 94 extending laterally and centered laterally in the strip 90, which is adhered to the wallboard 86 along side edge areas 96.

the suspension clips 88 are formed of a heavy gauge, one-inch wide sheet metal and include a three-inch long, vertically extending top leg 98, connected at the bottom 102, to a hanger leg 100, which extends outwardly and downwardly from the bottom 102 of top leg 98, at an angle of about 40° to 60°, relative to the vertical top leg 98.

The top leg 98 of each clip 88 is disposed between the wallboard back face 92 and the strip 90. Each clip extends through a slot 94 at the bottom 102 of top leg 98. Each clip hanger leg 100 is disposed over the top edge 104 of an upwardly extending side wall 106 of a horizontal channel 82.

In Figure 6, there is shown a still further modified form of the invention in which a stud 110 supports a horizontal channel 112 extending through cutouts 114 in the stud 110. Wallboards 116 are supported and held firmly against studs 110 by wire suspension clips 118. The wallboards 116 have a tear-resistant fabric strip 120 partially adhered to the back face 122, adjacent each side edge 124 of wallboards 116.

The fabric strip 120 has a plurality of small holes 126 arranged in laterally spaced pairs in the strip 120, which is adhered along side edge areas 128 and in a center area 130, leaving unadhered narrow areas 132 between the center area 130 and each side area 128.

The wire suspension clips 118 are formed of a heavy, rigid wire of two symmetrical side portions 134. Each side portion 134 includes a three-inch long, vertically extending top leg 136 connected at the bottom

138 to a hanger leg 140, which extends outwardly and downwardly from the bottom 138 of top leg 136, at an angle of about 40° to 60° relative to the vertical top leg 136. The hanger legs 140 of each side portion 134 are joined together at a bottom wire bend 142.

The top leg 136 of each side portion 134 of each clip 118 is disposed between the wallboard back face 122 and the strip 120, at an unadhered narrow area 132. Each side portion extends through one of the pair of  
10 small holes 126, at the bottom 138 of top leg 136. The pair of hanger legs 140 are disposed over the top edge 144 of an upwardly extending side wall 146 of a horizontal channel 112.

In addition to the embodiments described, which incorporate an elongate tear-resistant fabric strip 30, 90 or 120, extending lengthwise on the back face 32, 92 or 122 of wallboard 26, 86 or 116, it is contemplated that the tear-resistant material could be elongate strips extending laterally across the width of the board at  
20 desired spaced locations, or, even further, the tear-resistant material could be discontinuous strips or patches. With laterally extending strips, slots, for insertion of clips 28, 88 or 118, would need to be located inward from the bottom and top edges, with unadhered areas of tear-resistant material above the slots, between adhered areas of material. The width of a laterally extending strip may need to be wider than what is required for longitudinally extending strips.



9  
Having completed a detailed disclosure of the preferred embodiments of my invention, so that others may practice the same, I contemplate that variations may be made without departing from the essence of the invention.

~~I claim~~

The claims defining the invention are as follows:

1. In combination, a wallboard having a thin, strong, tear-resistant material partially adhered to a back face of said wallboard, and a plurality of suspension clips, said tear-resistant material having a plurality of openings, said tear-resistant material being firmly adhered to said back face in areas closely adjacent said openings, said tear-resistant material being unadhered to said back face, forming pockets in areas located behind and immediately above said openings, said suspension clips having at least one leg extending vertically upwardly through one of said openings in said tear-resistant material and upward into one of said pockets between unadhered areas of said tear-resistant material and said back face, said suspension clip further having an outwardly and downwardly extending hanger leg for suspending said wallboard from a channel member of a wall framing structure.

2. The combination of claim 1 wherein said wallboard is a paper covered gypsum wallboard.

3. The combination of claim 1 wherein said thin, strong, tear-resistant material comprises a strong woven fabric.

4. The combination of claim 1 wherein said thin, strong, tear-resistant material comprises a fiber-reinforced paper.

5. The combination of claim 1 wherein said thin, strong, tear-resistant material is a laminated composite comprising a ply of glass-fiber scrim and a ply of fiberglass reinforced paper.

6. The combination of claim 1 wherein said thin, strong, tear-resistant material is an elongate narrow strip extending closely adjacent a side edge of said wallboard back face.

7. The combination of claim 1 wherein said suspension clips are formed of a narrow piece of rigid sheet metal, and said openings in said tear-resistant material are laterally extending slots.

8. The combination of claim 7 wherein said suspension clip further comprises a curved front leg joined at a bottom of said front leg to a bottom of said back leg and joined at a top of said front leg to a top of said hanger leg, whereby upward forces on said hanger leg urge said top of said front leg tightly against said tear-resistant material, grasping said tear-resistant material between said front leg top and said back leg.

9. The combination of claim 8 wherein said front leg top has a raised ridge and said back leg an opening adjacent said raised ridge, for a more firm grasp of said tear-resistant material.

10. The combination of claim 1 wherein said suspension clip consists essentially of said back leg adjoined at a bottom of said back leg to a top of said hanger leg.

11. The combination of claim 1 wherein said suspension clip consists essentially of a single bent rigid wire having two vertical back legs and two hanger legs adjoined at a bottom thereof.

12. The combination of claim 1 further comprising an upwardly opening elongate metal channel extending through aligned cutouts in webs of a plurality of spaced vertical studs, and said hanger leg is supported on a top edge of a side wall of said channel.

13. The combination of claim 12 wherein said vertical studs each have a bottom end in a floor runner and a top end in a ceiling runner.

14. The combination of claim 12 wherein said wallboards are held firmly against said studs by a leverage action of said hanger leg on said metal channel.

15. The combination of claim 1 wherein said tear-resistant material includes a raised portion immediately above said openings, providing for ease of insertion of said clip top leg.

16. The combination of claim 15 wherein said raised portion is an elongate raised rib.

17. A wallboard comprising a flat, rectangular, rigid board, said board having a front face, a back face, two side edges and two ends, said board having thin, strong, tear-resistant material partially adhered to said back face, said tear-resistant material being disposed in at least a plurality of spaced-apart areas throughout said back face, suitable to support and retain said wallboard in place when fastening means are affixed to said material in each of said areas, said material being adhered to said back face at least in said spaced-apart areas with unadhered portions forming pockets positioned between adhered portions, whereby an upwardly extending leg of a suspension clip can be caused to pass through said material at one of said unadhered portions and to extend upward into said unadhered pocket, to support and retain said wallboard in place.

18. A wallboard as defined in claim 17 wherein said tear-resistant material has preformed slots formed therein in said unadhered areas for ease of insertion of suspension clip legs into said pockets.

19. A wallboard as defined in claim 17 wherein said tear-resistant material consists of a plurality of separate strips.

20. A wallboard as defined in claim 19 wherein said separate strips are slotted elongate strips partially adhered to said back face adjacent said wallboard side edges.

21. The method of mounting wallboard comprising the steps of inserting a back leg portion of each of a plurality of angled suspension clips through thin tear-resistant material, said thin tear-resistant material being adhered to a back face of said wallboard along spaced apart portions of said thin tear-resistant material, inserting each of said clips upwardly through an opening in said thin tear-resistant material into a pocket between said wallboard back face and an unadhered area of said thin tear-resistant material located between said spaced apart adhered portions and immediately above said opening, and subsequently disposing outwardly and downwardly extending hanger legs of said plurality of clips on horizontally extending channel members of a wall framing structure.

22. The method of claim 21 wherein said hanger legs are disposed over a top edge of a side wall of an upwardly opening channel member of said wall framing structure.

23. The method of claim 21, further comprising the step of forming said angled suspension clips to include at least an intermediate leg and the step of urging said intermediate leg of each said clip against said tear-resistant material by causing the weight of said wallboard to bend said hanger leg and said intermediate leg upwardly and against said tear-resistant material.

24. The method of claim 21, further comprising the step of adhering said thin tear-resistant material to said wallboard back face, prior to said insertion of said clip, said adhering of said material consisting essentially of preparing long narrow strips of said material, forming a plurality of longitudinally spaced-apart slots in said material, and adhering one of said strips along each of two parallel side edges of said wallboard back face.

25. The method of claim 24 wherein said adhered spaced apart portions of said narrow strips are two longitudinal side edges of said long narrow strips.

26. The method of claim 25 wherein a raised ridge is produced along an unadhered central area of said strip, providing for easier insertion of said clips.

27. A wallboard as defined in claim 17 wherein said thin, strong, tear-resistant material comprises a layer of non-woven synthetic fibers.

28. The wallboard of claim 27 wherein said layer comprises fibers of the group consisting of polyester and polypropylene.

29. The wallboard of claim 28 wherein said tear-resistant material is a composite of a fused, non-woven synthetic fiber ply laminated to a kraft paper ply.

30. The wallboard of claim 27 wherein said layer further comprises fiberglass fibers.

31. The wallboard of claim 27 wherein said layer is latex impregnated.

32. A wallboard as defined in claim 17 wherein said thin, strong, tear-resistant material is spun-bonded, non-woven nylon.

33. A wallboard as defined in claim 17 wherein said thin, strong, tear-resistant material is a laminate of latex impregnated paper and kraft paper.

34. A wallboard as defined in claim 17 wherein said thin, strong, tear-resistant material comprises a layer of non-woven fiberglass fibers.

35. A wallboard as defined in claim 17 wherein said thin, strong, tear-resistant material is a laminate of metal screen and kraft paper.

36. A wallboard as defined in claim 17 wherein said thin, strong, tear-resistant material is a thin metallic sheet of about .015 inch thickness.

37. A wallboard as defined in claim 19 wherein said separate strips are slotted elongate strips partially adhered to said back face and extending laterally of said wallboard back face at a plurality of longitudinally spaced locations.

38. A wallboard as defined in claim 17 wherein said thin, strong, tear-resistant material consists of a plurality of small patches disposed in spaced apart locations on said wallboard back face.

DATED this THIRTEENTH day of DECEMBER 1989  
National Gypsum Company

Patent Attorneys for the Applicant  
SPRUSON & FERGUSON



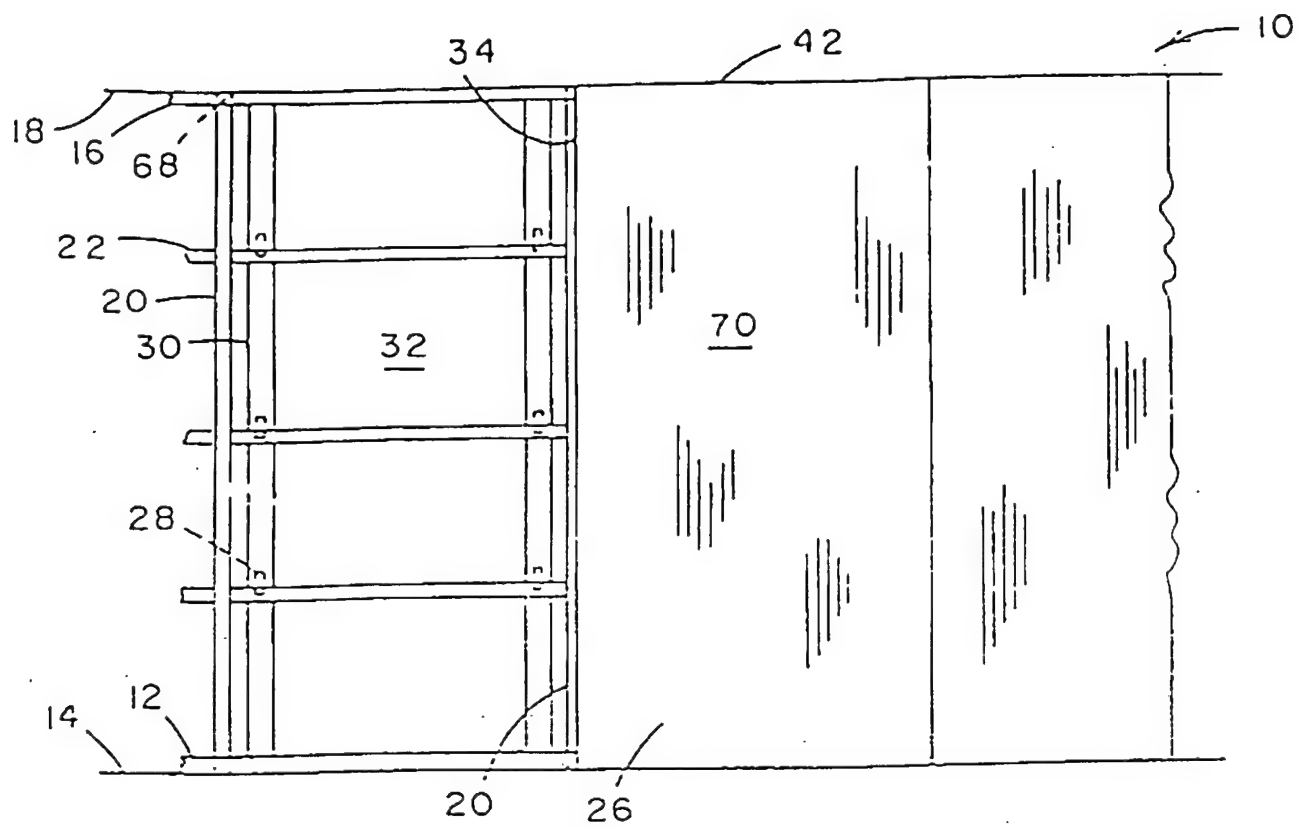


Fig. 1

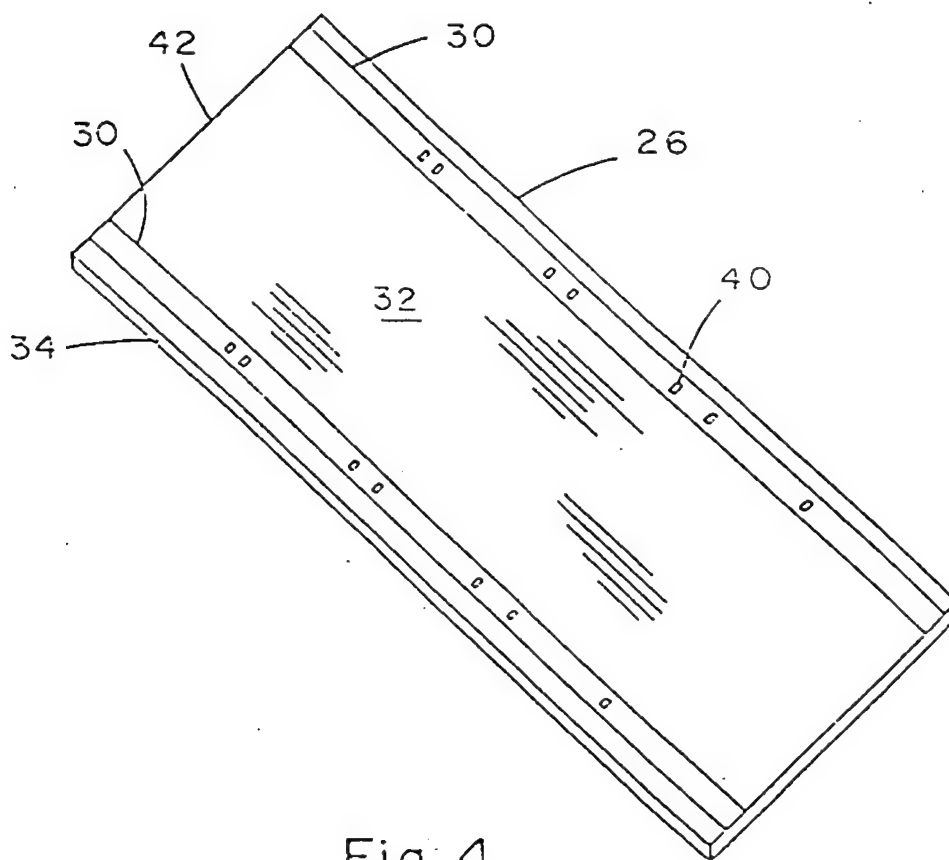


Fig. 4

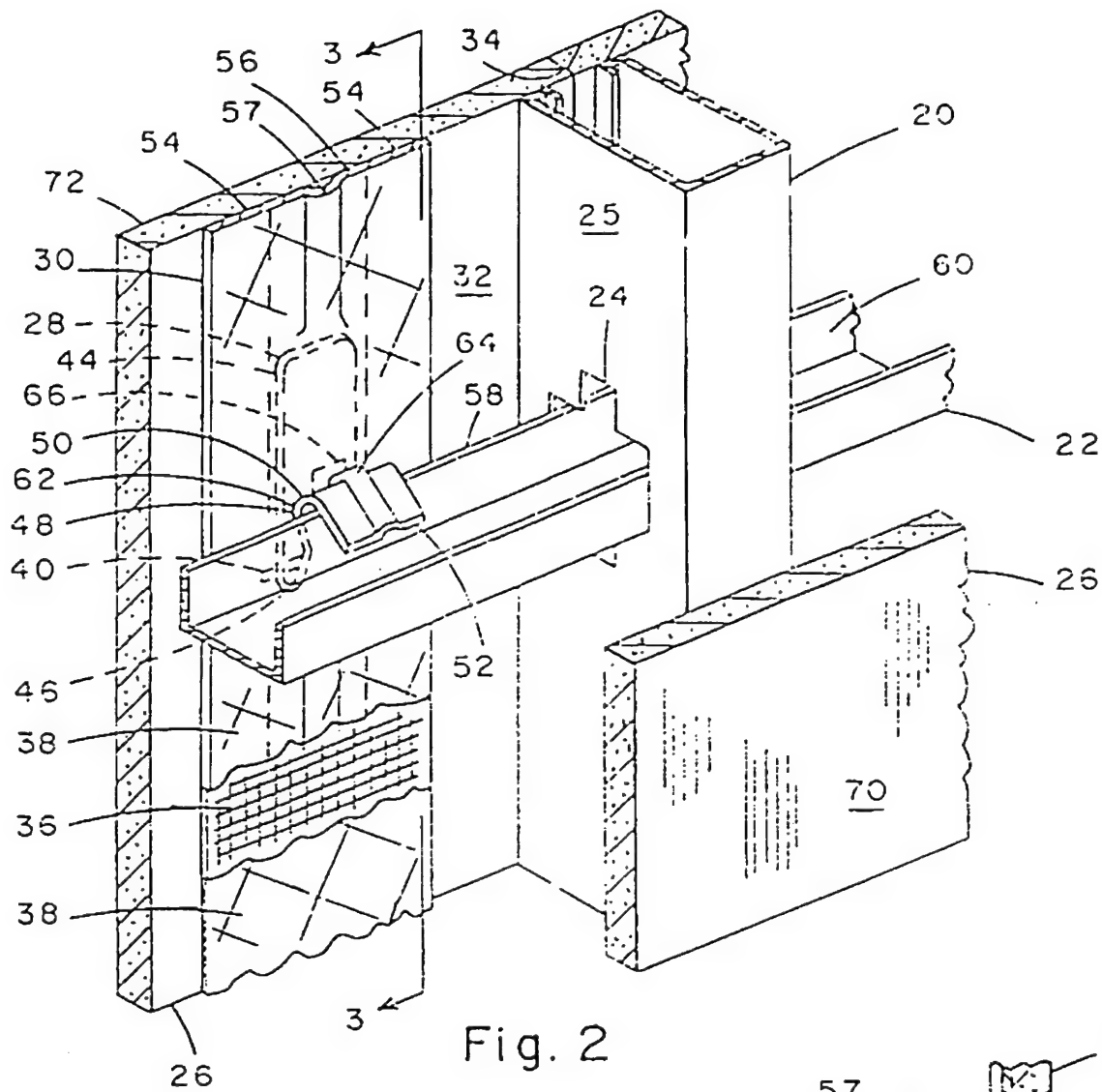


Fig. 2

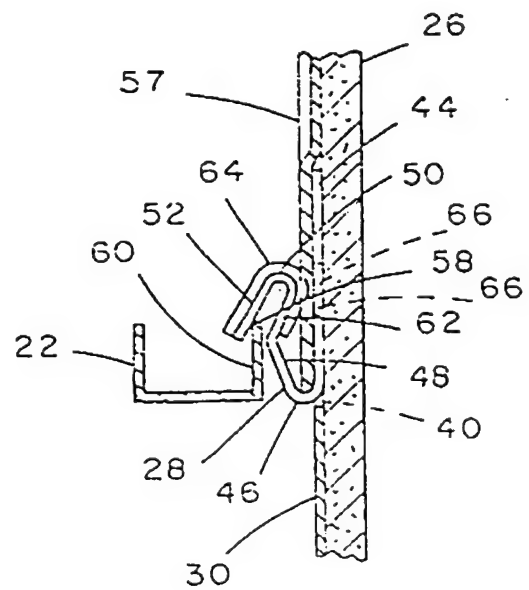


Fig. 3

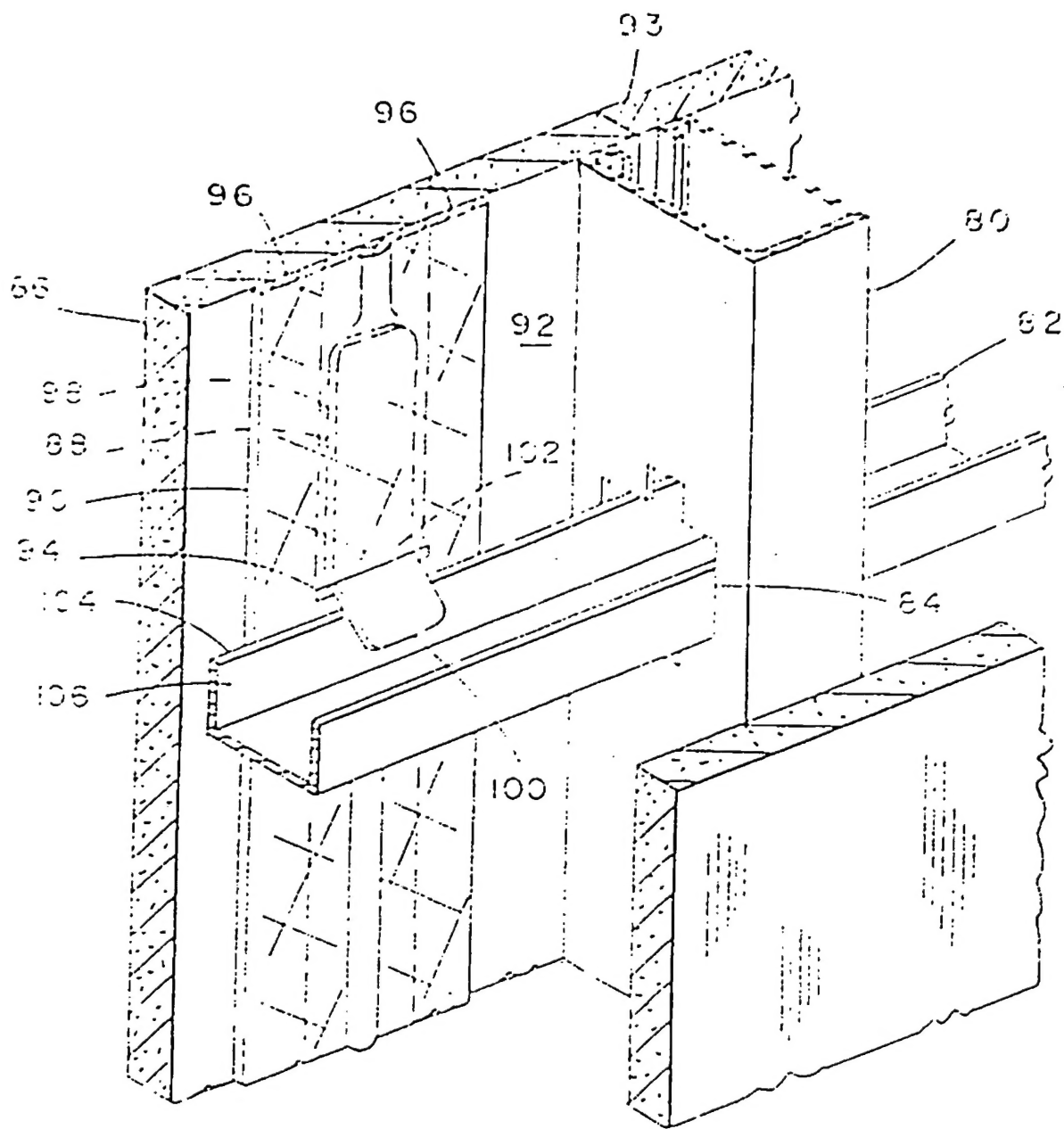


Fig. 5



AMENDED



616088

SPRUSON & FERGUSON

COMMONWEALTH OF AUSTRALIA

PATENTS ACT 1952

CONVENTION APPLICATION FOR A STANDARD PATENT

National Gypsum Company of 4500 Lincoln Plaza, 500 N. Akard Street, Dallas, Texas, 75201, UNITED STATES OF AMERICA hereby apply for the grant of a standard patent for an invention entitled:

Panels with Laminated Strips for Clips

which is described in the accompanying complete specification.

DETAILS OF BASIC APPLICATIONS

<u>Basic Applic. No:</u>	<u>Country:</u>	<u>Application Date:</u>
299,200	US	23 January 1989
410,449	US	21 September 1989

The address for service is:-

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DATED this TWENTY EIGHTH day of FEBRUARY 1990

National Gypsum Company

By:

Registered Patent Attorney.

TO: THE COMMISSIONER OF PATENTS  
OUR REF: 115278  
S&F CODE: 58887

COMMONWEALTH OF AUSTRALIA  
PATENTS ACT 1952

DECLARATION IN SUPPORT OF A CONVENTION APPLICATION FOR A PATENT

In support of the Convention Application made for a patent for an invention entitled:

Panels with Laminated Strips for Clips

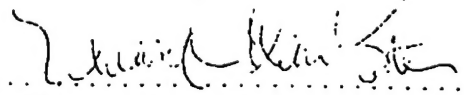
I, Edward Alan Porter, c/- National Gypsum Company, of 4500 Lincoln Plaza, 500 N. Akard Street, Dallas, Texas, 75201, United States of America, do solemnly and sincerely declare as follows:-

1. I am authorised by National Gypsum Company, the applicant for the patent to make this declaration on its behalf.
2. The basic applications as defined by Section 141 of the Act were made in United States of America on 23 January 1989 by Robert J. Menchetti and on 21 September 1989 by Robert J. Menchetti.
3. Robert J. Menchetti, of 116 Highland Parkway, Buffalo, New York, 14223, United States of America, is the actual inventor of the invention and the facts upon which the applicant is entitled to make the application are as follows:

The said applicant is the assignee of the actual inventor.

4. The basic applications referred to in paragraph 2 of this Declaration were the first applications made in a Convention country in respect of the inventions the subject of the application.

DECLARED at Dallas, Texas this 19th day of March 1990

  
Signature of Declarant

TO: THE COMMISSIONER OF PATENTS  
AUSTRALIA